

MULTI-SENSORY SPEECH DETECTION SYSTEM

ABSTRACT OF THE DISCLOSURE

The present invention combines a
5 conventional audio microphone with an additional
speech sensor that provides a speech sensor signal
based on an input. The speech sensor signal is
generated based on an action undertaken by a speaker
during speech, such as facial movement, bone
10 vibration, throat vibration, throat impedance
changes, etc. A speech detector component receives
an input from the speech sensor and outputs a speech
detection signal indicative of whether a user is
speaking. The speech detector generates the speech
15 detection signal based on the microphone signal and
the speech sensor signal.